United States
Department of
Agriculture

Soil
Conservation
Service

Reno
Nevada

Nevada
Water Supply Outlook

May 1, 1987

Foreward

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall. This snowfall accumulates high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are viewed in conjunction with snowpack data to prepare runoff forecasts. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data and narratives describing current conditions.

Streamflow forecasts are cooperatively generated by Soil Conservation Service and National Weather Service hydrologists. Forecasts become more accurate as more data affecting runoff becomes known. For this reason, forecasts are issued that reflect three future precipitation conditions — Below Normal, Average, and Above Normal. These forecasts are termed reasonable minimum, most probable, and reasonable maximum. Actual streamflow can be expected to fall between the lower and upper forecast values eight out of ten years.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation, temperature, and other parameters are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. Because of the limited space, snow survey measurements are not published in monthly reports. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola, Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Denver, CO 80211
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 97102
Idaho	304 North 8th Street, Room 345, Boise, ID 83702
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97208
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	360 U.S. Court House, Spokane, WA 99201
Wyoming	Federal Building, 100 East "B" Street, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 547, Portland, OR 97209.

Published by other agencies:

Water Supply Outlook Reports prepared by other agencies include: California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A 3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Nevada
Water Supply Outlook

and

Federal - State - Private
Cooperative Snow Surveys

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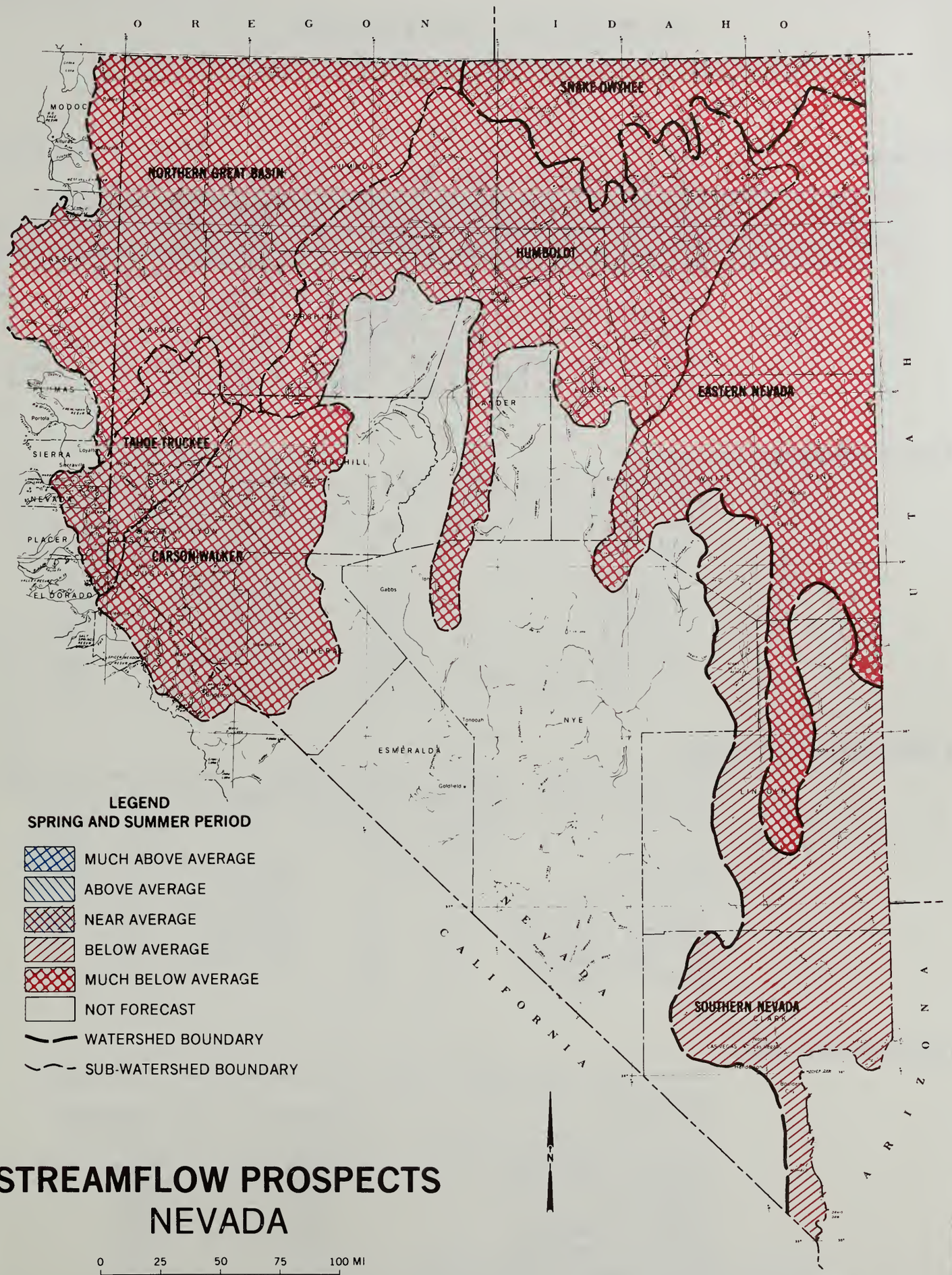


LEGEND
SPRING AND SUMMER PERIOD

- MUCH ABOVE AVERAGE
- ABOVE AVERAGE
- NEAR AVERAGE
- BELOW AVERAGE
- MUCH BELOW AVERAGE
- NOT FORECAST
- WATERSHED BOUNDARY
- SUB-WATERSHED BOUNDARY

STREAMFLOW PROSPECTS
NEVADA

0 25 50 75 100 MI

0 50 100 150 KM

SOURCE: Data compiled by SCS Field Personnel.

APRIL 1985 4-R-39131

USDA SCS FORT WORTH, TEXAS 1985

GENERAL OUTLOOK

SUMMARY:

SNOWPACK CONDITIONS REMAIN WELL BELOW AVERAGE THROUGHOUT THE STATE. HIGH TEMPRERATURES GREATLY REDUCED THE AMOUNT OF WATER PRESENT IN THE SNOWPACK DURING THE MONTH OF APRIL. PRECIPITATION RANGED FROM BELOW AVERAGE TO WELL BELOW AVERAGE. YEAR-TO-DATE PRECIPITATION TOTALS ARE BELOW AVERAGE TO WELL BELOW AVERAGE STATE-WIDE. RESERVOIR STORAGE WAS ABOVE AVERAGE AT THE END OF APRIL. STREAMFLOW FORECASTS INDICATE BELOW AVERAGE TO WELL BELOW AVERAGE FLOWS DURING THE APRIL - JULY FORECAST PERIOD.

SNOWPACK:

Snowpacks were drastically reduced during April with most sites reporting no snow. Snow was reported at high elevation sites and sites with some protection.

BASIN	% OF AVG.	BASIN	% OF AVG.
TAHOE	03%	HUMBOLDT	19%
TRUCKEE	16%	SNAKE	39%
CARSON	17%	OWYHEE	00%
WALKER	08%	EASTERN	16%
N. GREAT BASIN	25%	SOUTHERN	59%

PRECIPITATION:

Precipitation during April ranged from below average to well below average. Year-to-date precipitation remained well below average for most of the state.

BASIN(S)	5/1 % OF AVG.	YTD % OF AVG.	BASIN(S)	5/1 % OF AVG.	YTD % OF AVG.
TAHOE & TRUCKEE	36	44	HUMBOLDT	26	58
CARSON & WALKER	34	41	EASTERN	28	61
N. GREAT BASIN	83	65	SOUTHERN	42	89
SNAKE & OWYHEE	39	55			

RESERVOIRS:

Reservoir storage in the state was above average at the end of April.

BASIN(S)	% CAPACITY	% OF AVERAGE
TAHOE & TRUCKEE	68%	111%
CARSON & WALKER	84%	110%
HUMBOLDT	70%	107%
SNAKE & OWYHEE	63%	131%
SOUTHERN NEVADA	93%	105%
SEVEN MAJOR RESERVOIRS	73%	112%

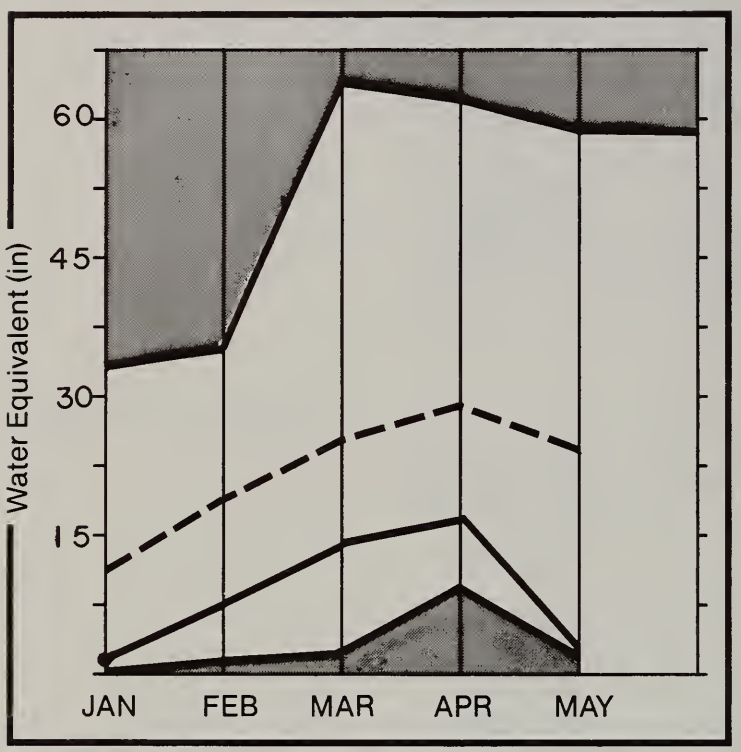
STREAMFLOW:

Streamflows in the state are forecast at well below average during April-July. Because of poor snowpack conditions, streams peaked about a month earlier than usual. High temperatures may also affect flow rates.

BASIN(S)	% OF AVG.	BASIN(S)	% OF AVG.
TAHOE & TRUCKEE	33%-44%	HUMBOLDT	35%-67%
CARSON & WALKER	17%-42%	EASTERN	46%-81%
N. GREAT BASIN	40%-63%	SOUTHERN	76%
SNAKE & OWYHEE	26%-46%		

TAHOE & TRUCKEE BASINS

Mountain snowpack* (inches)



*Based on selected stations

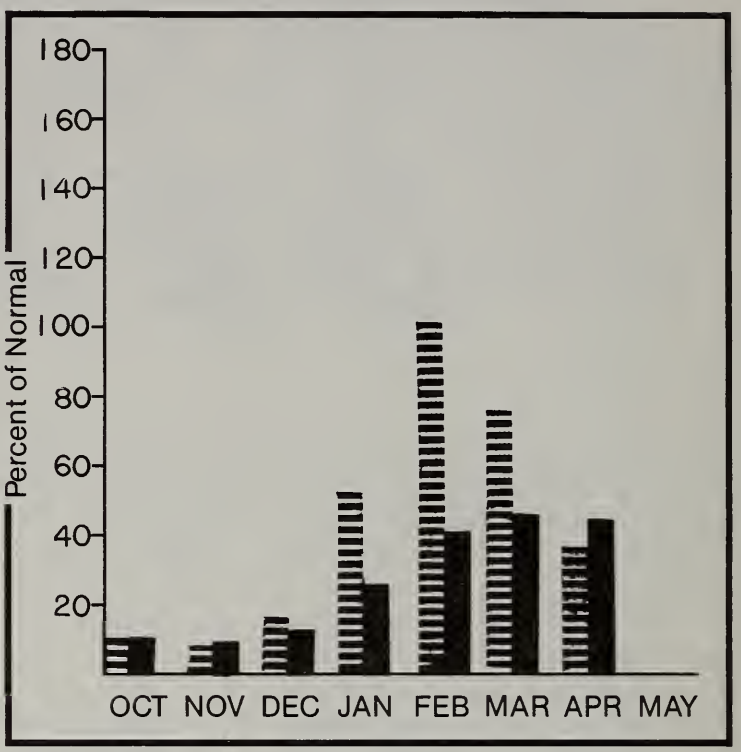
Maximum

Minimum

Average

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snow water contents for May are well below average. The Lake Tahoe Basin has about 03% of the average snowpack and 03% of the water content present last year. The Truckee Basin presently has 17% of last year's snowpack and is 16% of normal. April's precipitation was 36% of average and 98% of last year. Total precipitation since October 1, 1986 is 44% of average and 39% of last year's total precipitation figures at this time. Reservoir storage is 11% over the average. Total storage for Boca, Lake Tahoe, Prosser and Stampede is 705,400 acre feet. Streamflow forecasts indicate flows will be well below average during the April - July forecast period. The Truckee River at Farad is expected to flow at 37% of normal.

For more information contact your local Soil Conservation Service office.

TAHOE & TRUCKEE BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
LAKE TAHOE RISE(assume gates closed)	APR-HIG	1.5	0.4	27	1.0	68	0.2	14
	MAY-HIG	1.0	0.3	21	0.7	68	0.1	10
TRUCKEE RIVER at Farad 2	APR-JUL	284.7	105.0	37	168.0	59	42.0	15
	MAY-JUL	215.4	74.0	34	138.0	64	22.0	10
LITTLE TRUCKEE RIVER above Boca 2	APR-JUL	91.5	30.0	33	48.0	52	12.0	13
PYRAMID LAKE RISE (LOW 2/1/87)	LOW-HIG	1.2	-1.1	31	0.0		0.0	
STEAMBOAT CREEK at Steamboat 2	APR-JUL	7.1	3.0	42	4.0	56	2.0	28
SAGEHEN CREEK, Ca	APR-JUL	6.5	2.5	38	4.0	62	1.0	15
GALENA CREEK nr Steamboat, Nv	APR-JUL	4.5	2.0	44	3.0	67	1.0	22

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.
BOCA RESERVOIR	40.9	28.5	31.3	29.5
LAKE TAHOE	744.6	511.3	653.6	451.4
PROSSER RESERVOIR	28.6	11.7	19.1	13.2
STAMPEDE RESERVOIR	226.5	153.9	192.1	139.5

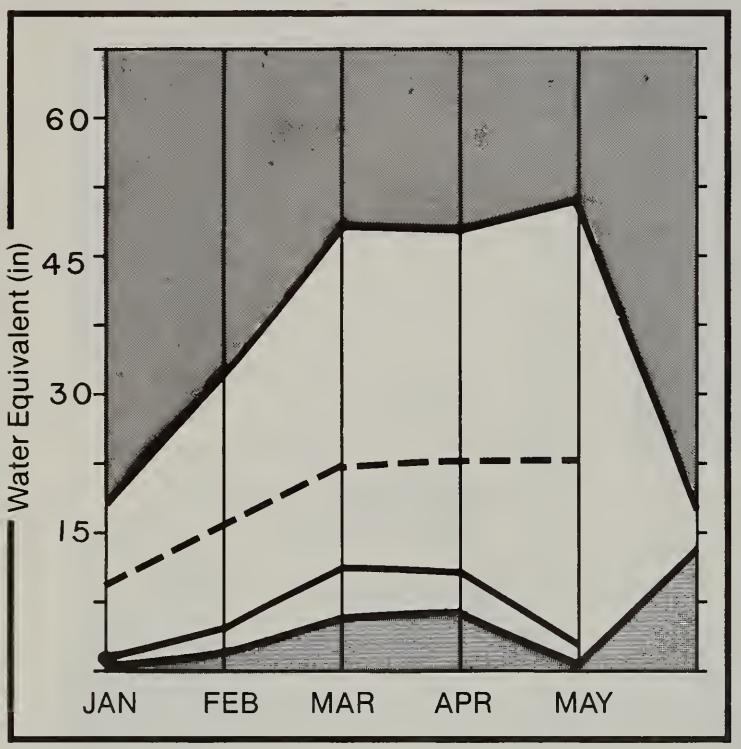
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	AVERAGE
LAKE TAHOE RISE	6	7	6
TRUCKEE BASIN	11	18	16
LITTLE TRUCKEE RIVER	3	38	38
SAGE HEN CREEK	5	27	25
GALENA CREEK	2	4	4
STEAMBOAT DRAINAGE	1	0	0
PYRAMID LAKE	17	14	12

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

CARSON & WALKER BASINS

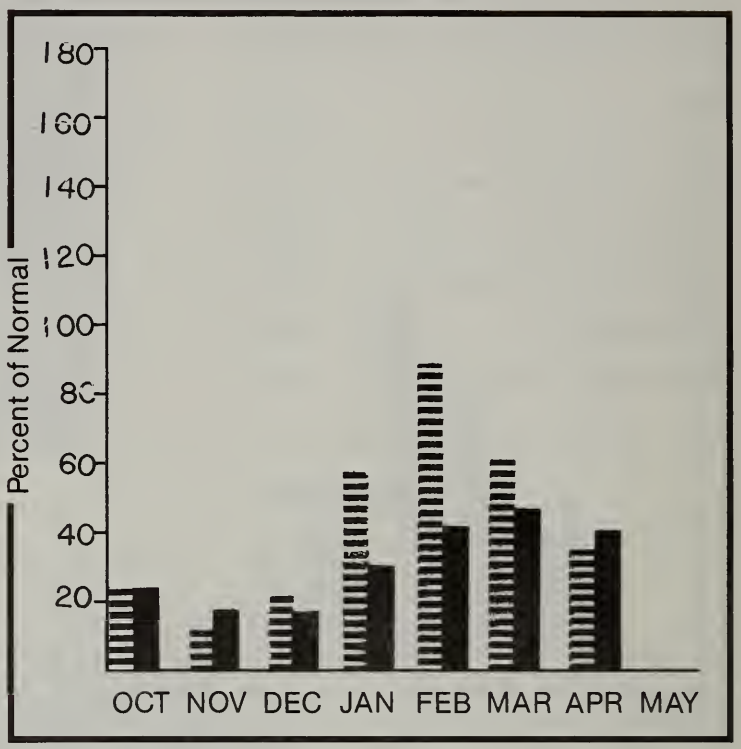
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack accumulations remain well below average for May. The water content in the Carson River Basin is 17% of average and 17% of last year's water content. The Walker River Basin has 08% of the average snowpack and 05% of last year's snowpack. April precipitation in the Carson-Walker Basins was 34% of normal and about 94% of last April's recorded precipitation. Year to date precipitation is well below average at 41%. This year's total precipitation is 35% of the year to date figures last year at this time. Water storage at Bridgeport, Lahontan and Topaz reservoirs is 10% above normal. Streamflows are expected to range from 17% - 42% of normal. The Carson River near Carson City is forecast to flow at 23% of normal.

For more information contact your local Soil Conservation Service office.

CARSON & WALKER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
EF CARSON RIVER nr Gardnerville, Nv	APR-JUL	198.4	83.0	42	109.0	55	57.0	29
WF CARSON RIVER at Woodfords, Ca	APR-JUL	56.7	22.0	39	32.0	56	12.0	21
CARSON RIVER near Carson City, Nv	APR-JUL	198.3	46.0	23	82.0	41	10.0	5
	MAY-JUL	163.1	30.0	18	66.0	40	10.0	5
CARSON RIVER near Ft. Churchill, Nv	APR-JUL	182.4	31.0	17	137.0	75	6.0	3
	MAY-JUL	151.0	16.8	11	100.0	66	6.0	3
EAST WALKER RIVER nr Bridgeport 2	APR-AUG	76.8	22.0	29	48.0	63	7.0	9
WEST WALKER RIVER near Coleville, Ca	APR-JUL	154.6	50.0	32	70.0	45	30.0	19
WALKER LAKE RISE (LOW 2/1/87)	LOW-HIG	-0.0	-1.3	27	0.0		0.0	

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.
BRIDGEPORT RESERVOIR	42.5	37.2	31.1	30.5
LAHONTAN RESERVOIR	295.1	258.5	290.7	229.0
TOPAZ RESERVOIR	59.4	39.3	48.5	43.8

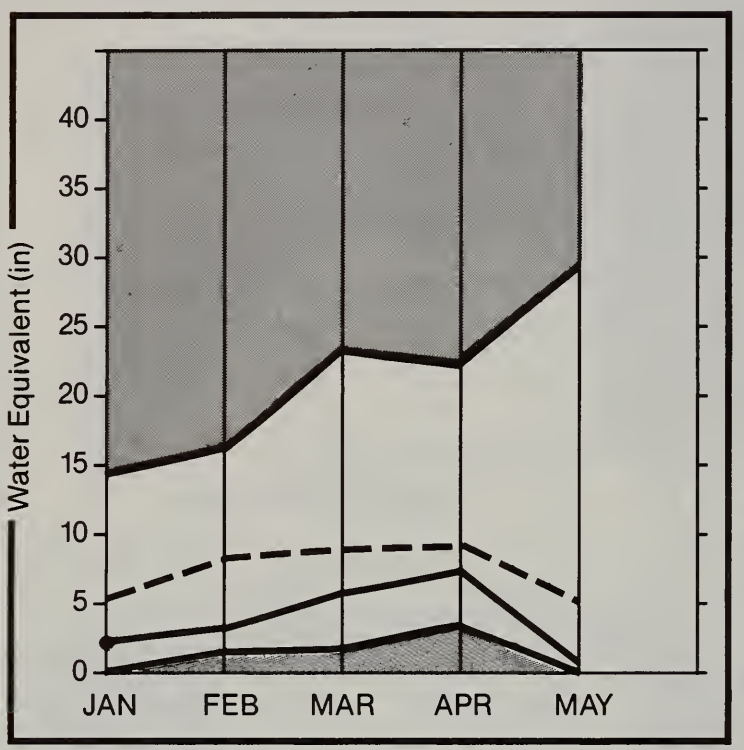
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	AVERAGE
E. CARSON RIVER	4	11	12
W. CARSON RIVER	3	13	16
CARSON Rv. at Carson City	4	13	14
CARSON Rv. at Ft. Churchi	4	13	14
E. WALKER Rv. nr Bridgepo	2	16	23
W. WALKER Rv. nr Colevill	3	17	25
WALKER LAKE RISE	3	17	25

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

HUMBOLDT BASIN

Mountain snowpack* (inches)



*Based on selected stations

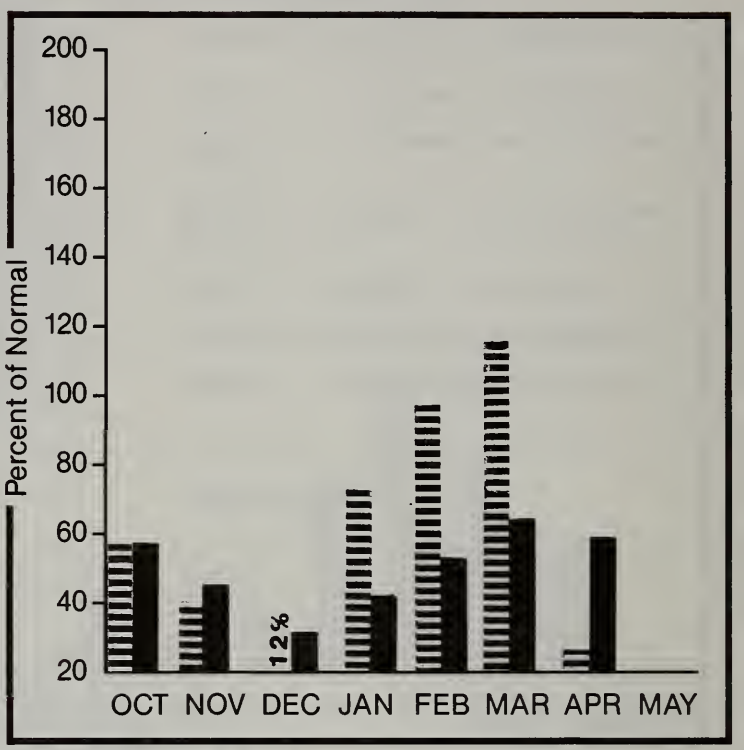
Maximum

Minimum

Average

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snow water accumulations on May 1st were well below average. Snowpack in the Upper Humboldt Basin is 11% of average and 12% of last year's snow water content. The Lower Humboldt Basin is 26% of average and 24% of the snowpack present last year. Monthly precipitation for April was 26% of average and 19% of last year's monthy totals. Year to date precipitation is 58% of normal and 56% of last year's year to date totals. Water stored at Rye Patch Reservoir is slightly above average. Storage is 07% above the average. On April 1, 382 cfs was being released from the reservoir. Streamflows for the Humboldt Basin remain well below average. The Humboldt River at Palisade is expected to flow at 120,000 acre feet or 45% of normal.

For more information contact your local Soil Conservation Service office.

HUMBOLDT BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
HUMBOLDT RIVER at Palisade	APR-JUL	269.0	120.0	45	360.0	134	55.0	20
HUMBOLDT RIVER at Comus	APR-JUL	229.1	80.0	35	325.0	142	27.0	12
S FORK HUMBOLDT RIVER at Dixie	APR-JUL	71.5	30.0	42	90.0	126	10.0	14
NF HUMBOLDT RIVER at Devils Gate	APR-JUL	34.3	15.0	44	40.0	117	4.0	12
MARY'S RIVER nr Deeth	APR-JUL	24.4	12.0	49	26.0	107	10.0	41
MARTIN CREEK nr Paradise Nv	APR-JUL	19.0	10.1	53	18.0	95	2.0	11
LAMOILLE CREEK nr Lamoille	APR-JUL	29.5	14.0	47	25.0	85	5.0	17
REESE RIVER nr Ione Nv	APR-JUL	7.8	5.2	67	12.0	154	2.0	26
L. HUMBOLDT RIVER nr Paradise Valley	APR-JUL	12.5	7.5	60	13.0	104	2.0	16
ROCK CREEK nr Battle Mtn.	APR-JUL	22.0	12.5	57	31.0	141	5.0	23

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.
RYE PATCH RESERVOIR	194.3	136.5	182.4	128.1

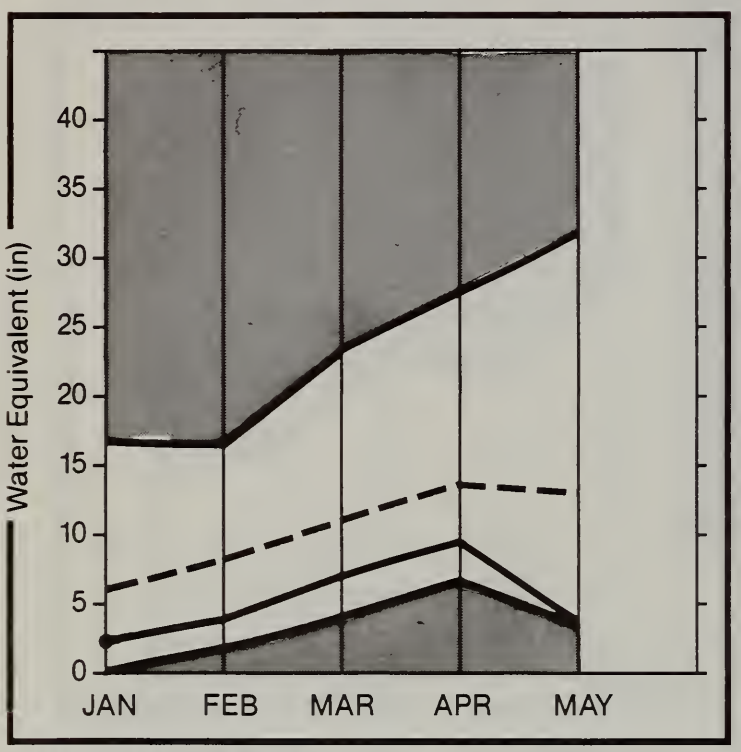
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
LAMOILLE CREEK	1	3	38
S. FORK HUMBOLDT	4	11	16
MARY'S RIVER	3	38	35
N. FORK HUMBOLDT	2	0	14
HUMBOLDT Rv. at Palisades	5	12	17
HUMBOLDT RIVER at Comus	5	12	17
LITTLE HUMBOLDT RIVER	0	0	0
MARTIN CREEK	0	0	0
REESE RIVER	1	35	39
ROCK CREEK	1	0	71

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

SNAKE & OWYHEE BASINS

Mountain snowpack* (inches)



*Based on selected stations

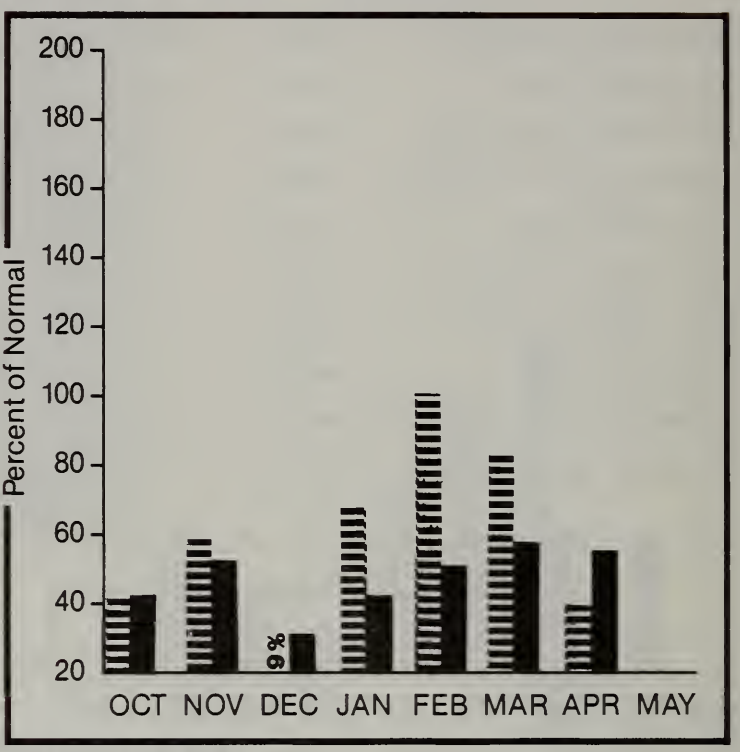
Maximum

Minimum

Average

Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snow water content is well below average. Snowpack in the Snake is 39% of average and 35% of the amount of water in the snowpack last year at this time. The Owyhee snow water content is 00% of normal and 00% of last year. Precipitation during April was 39% of average and 28% of last April's precipicitation amounts. Year to date precipitation was 55% of normal and 49% of the total precipitation recorded last year at this time. Reservoir storage at Wildhorse is well above average. Usable storage is 31% above the average. Streamflows are expected to stay well below average. The Owyhee River near Owyhee is forecast at 37% of average.

For more information contact your local Soil Conservation Service office.

SNAKE & OWYHEE BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
OWYHEE RIVER nr Gold Creek	APR-JUL	30.4	8.0	26	18.0	59	3.0	10
	MAY-JUL	14.4	3.0	21	8.0	59	1.0	7
OWYHEE RIVER nr Owyhee	APR-JUL	86.0	32.0	37	59.0	69	5.0	6
S FORK OWYHEE nr White Rock, Nv	APR-JUL	83.0	40.0	48	65.0	78	15.0	18
SALMON FALLS CK nr San Jacinto	MAR-JUL	97.0	40.0	41				

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.
WILDHORSE RESERVOIR	71.5	45.4	71.6	34.7

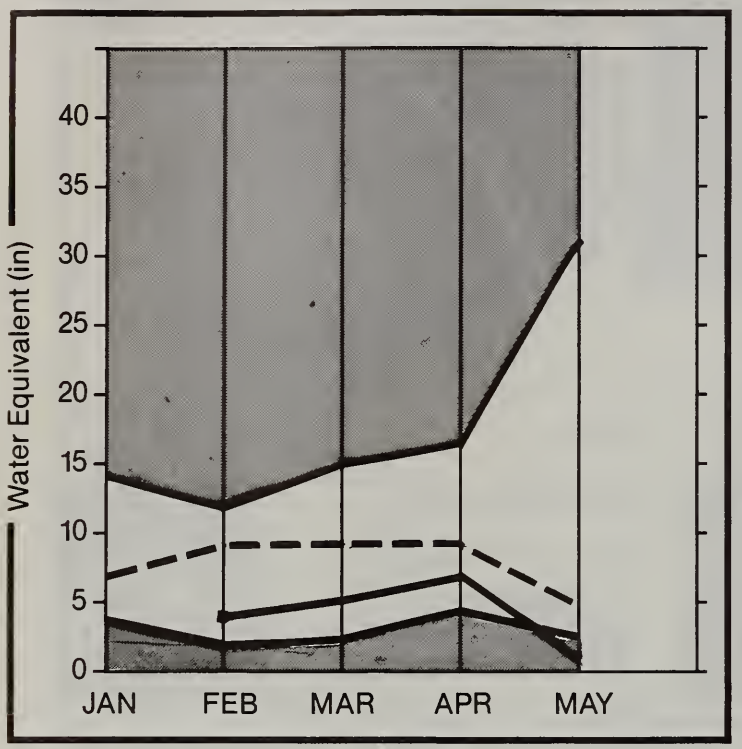
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
OWYHEE RIVER nr Owyhee	4	24	16
OWYHEE Rv. nr Gold Creek	1	0	0
S. FORK OWYHEE RIVER	4	24	16
SALMON FALLS CREEK	3	38	35

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

EASTERN NEVADA

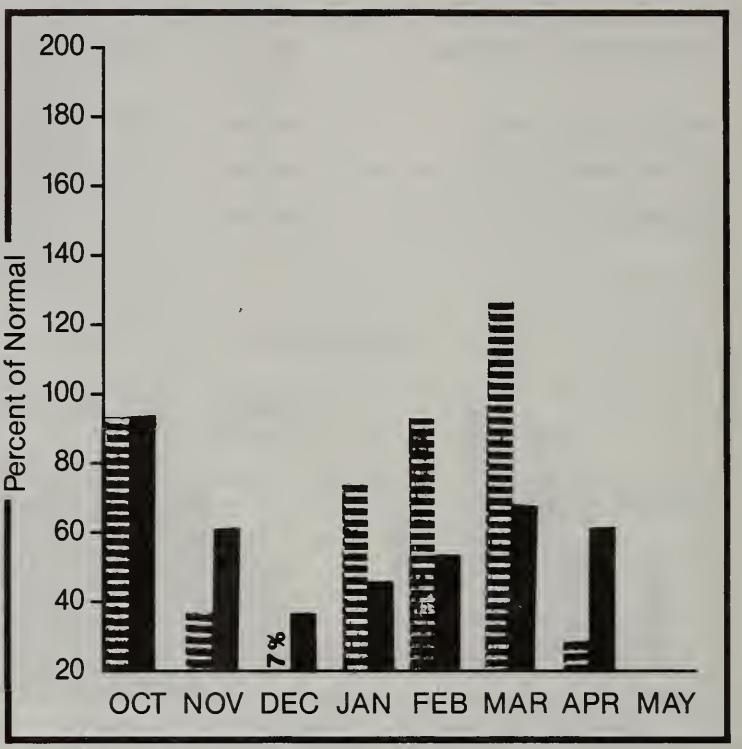
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snowpack accumulations are well below average. Water present in the snowpack is 16% of average and 05% of last year's snow water content. Last month's precipitation was 28% of normal and 22% of last April's precipitation. Year to date precipitation is 61% of average and 81% of totals recorded at this time last year. Streamflow forecasts are expected to be below average. Steptoe Creek near Ely is forecast at 1500 acre feet or 46% of average. The Franklin River near Arthur is projected to flow 4000 acre feet or 81% of average.

For more information contact your local Soil Conservation Service office.

EASTERN NEVADA

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
STEPTOE CREEK nr Ely	APR-JUL	3.2	1.5	46	4.0	124	1.0	31
KINGSTON CREEK nr Austin, Nv	APR-JUL	4.2	3.4	81	7.0	166	1.0	24
FRANKLIN RIVER nr Arthur	APR-JUL	6.9	4.0	58	10.0	146	1.0	15

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.

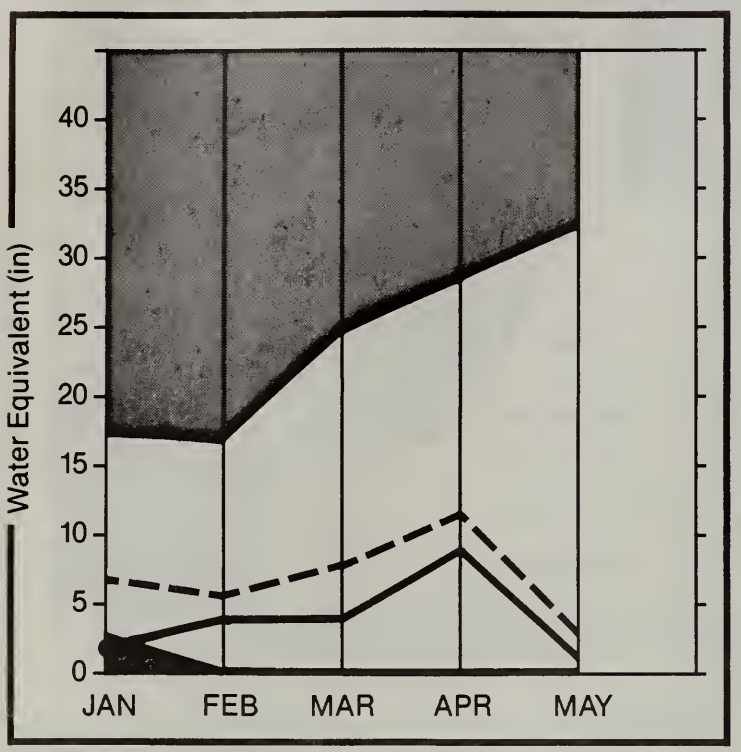
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	AVERAGE
FRANKLIN RIVER	1	9	7
KINGSTON CREEK	1	35	31
EASTERN NEVADA	0	0	0
STEPTOE VALLEY	0	0	0

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

NORTHERN GREAT BASIN

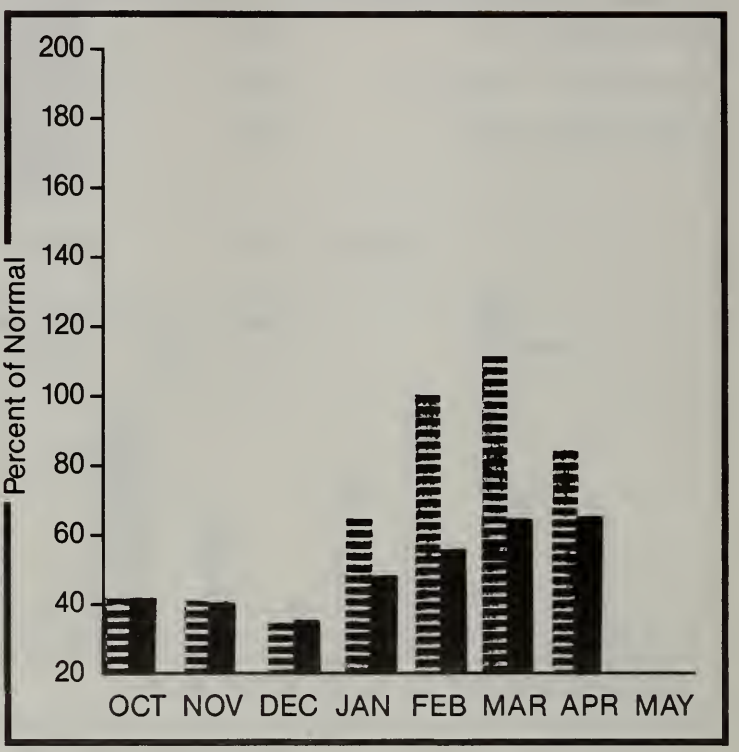
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation
Year to date precipitation

WATER SUPPLY OUTLOOK:

Snow water content on May 1 was well below average in the basin. The western portion of the basin is reporting 22% of the average snowpack while the eastern portion is showing 29% of average. The western portion of the basin is 18% of last year and the eastern portion is 24% of last year's snowpack. Precipitation recorded in April ranges from 62% of average in the east to 83% in the west. This year's April precipitation is 68% of last year's in the east and 57% of last year's in the west. Year to date precipitation is 65% of average in the west and 69% of average in the east. Total precipitation since October is 61% of last year in the east and 53% of last year in the west. Bidwell Creek near Fort Bidwell is forecast at 6500 ac. ft. or 54% of normal.

For more information contact your local Soil Conservation Service office.

NORTHERN GREAT BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
BIDWELL CREEK nr Fort Bidwell	APR-JUL	12.0	6.5	54	10.0	83	3.0	25
DEEP CREEK nr Cedarville, Ca	APR-JUL	3.6	1.7	47	3.0	83	1.0	28
EAGLE CREEK nr Eagleville, Ca	APR-JUL	4.3	2.7	63	4.0	93	1.0	23
MILL CREEK nr Cedarville, Ca	APR-JUL	4.1	2.4	59	4.0	98	1.0	24
QUINN RIVER nr McDermitt, Nv	APR-JUL	16.0	7.5	47	14.0	88	2.0	13
E. FORK QUINN RIVER nr McDermitt	APR-JUL	10.4	4.9	47	9.0	87	1.0	10
MCDERMITT CREEK nr McDermitt	APR-JUL	14.4	5.7	40	12.0	83	2.0	14

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.

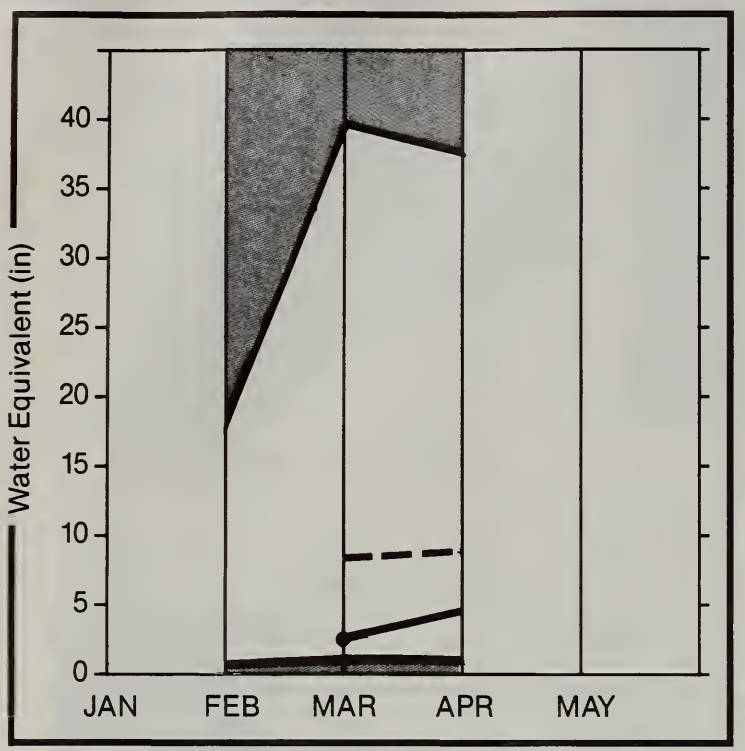
WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	AVERAGE
BIDWELL	1	0	0
MILL CREEK	1	0	0
DEEP CREEK	1	0	0
EAGLE CREEK	1	0	0
QUINN RIVER	1	167	17
E. FORK QUINN	1	167	17
McDERMITT CREEK	1	167	17

1 - Reas. max. and reas. min. forecasts are for 5% and 95% exceedance levels and also (2) below.
2 - Corrected for upstream diversions or changes in reservoir storage.
The average is computed for the 1961-85 base period.

SOUTHERN NEVADA

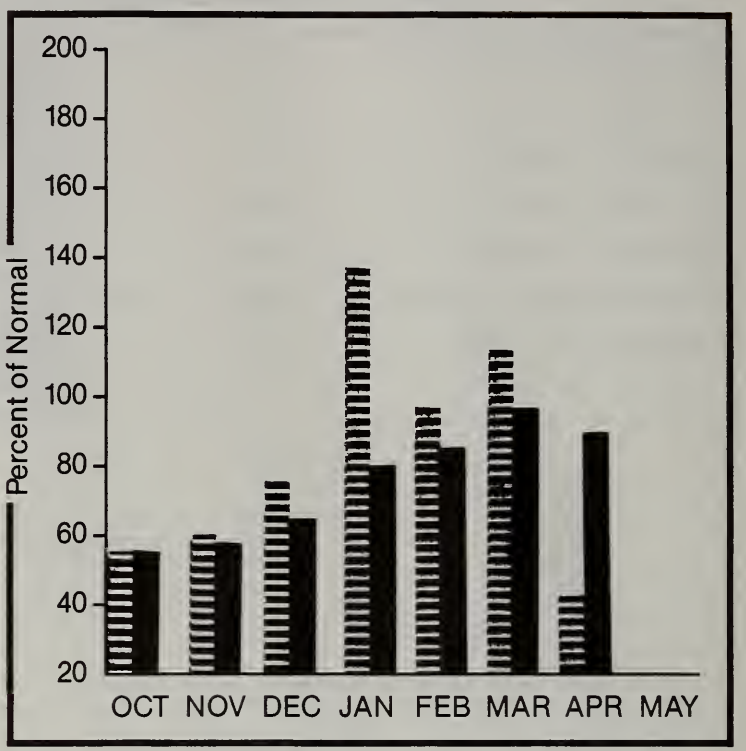
Mountain snowpack* (inches)



*Based on selected stations

Maximum
Minimum
Average
Current

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation

Year to date precipitation

WATER SUPPLY OUTLOOK:

Snow water content in the snowpack supplying the Virgin River is below average at 59% of normal. Monthly precipitation for April was 42% of average and 56% of last year's April totals. Total precipitation since October 1 is 89% of average and 104% of totals reported last year at this time. Storage at Lake Mohave is near normal at 108% of average. Lake Mead has 24,043,000 acre-feet of useable storage. The Virgin River near Hurricane, UT is forecast at 52,000 acre-feet which is 76% of average.

For more information contact your local Soil Conservation Service office.

SOUTHERN NEVADA

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	25 YR. AVG. (1000AF)	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	REAS. MAX. (1000AF)	REAS. MAX. (% AVG.)	REAS. MIN. (1000AF)	REAS. MIN. (% AVG.)
VIRGIN RIVER near Hurricane, UT	APR-JUL	68.0	52.0	76	85.0	125	20.0	29
LAKE POWELL inflow	APR-JUL	8086.0	7000.0	87	8860.0	110	5302.0	66

RESERVOIR STORAGE (1000AF)

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.
LAKE MOHAVE	1810.0	1720.2	1600.9	1675.0
LAKE MEAD	26159.0	24043.0	23616.0	1927.0

WATERSHED SNOWPACK ANALYSIS

WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	THIS YEAR AS % OF AVERAGE
VIRGIN Rv. at Littlefield	4	75	89
VIRGIN Rv. at Hurricane,	4	73	94

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The average is computed for the 1961-85 base period.

SNOW DATA MEASUREMENTS

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85
TRUCKEE RIVER						
CASTLE CREEK (CA)	7400	5/01/87	32	14.0	--	50.9
DONNER SUMMIT (CA)	6900	4/28/87	6	3.0	32.2	34.1
FORDYCE LAKE (CA)	6500	4/28/87	5	2.3	32.0	38.6
FURNACE FLAT (CA)	6700	4/28/87	22	11.6	45.5	47.9
CARSON RIVER						
CARSON PASS, UP (CA)	8600	4/29/87	0	.0	46.7	34.1
SNAKE RIVER						
BEAR CREEK	7800	5/01/87	---	3.8E	18.0	21.5
GOAT CREEK	8800	4/29/87	20	7.3	20.4	20.9
HUMMINGBIRD SPRINGS	8950	5/01/87	---	13.1E	--	27.7
POLE CREEK R.S.	8330	4/29/87	29	11.8	22.6	23.4

SNOTEL DATA READINGS

SNOTEL SITE NAME	SNOW WATER CONTENT	1961-85 AVERAGE	% OF AVERAGE
BEAR CREEK	2.3	23.2	9.9%
BIG BEND	0.0	2.8	0.0%
BIG CREEK SUM	6.1	15.8	38.6%
BIG MEADOWS	0.0	19.6	0.0%
BLUE LAKES	10.8	35.3	30.6%
BUCKSKIN LOWER	0.0	4.9	0.0%
CORRAL CANYON	4.8	14.9	32.2%
CSS LAB	0.4	23.7	1.7%
DIAMOND PEAK	0.6	3.8	15.8%
DISMAL SWAMP	8.2	29.7	27.6%
DORSEY BASIN	0.0	10.3	0.0%
EBBETS PASS	3.5	37.5	9.3%
ECHO PEAK	0.0	37.7	0.0%
FALLEN LEAF	0.0	0.1	0.0%
FAWN CREEK	0.0	13.0	0.0%
GOAT CREEK	4.6	20.3	22.7%
GRANITE PEAK	6.9	23.7	29.1%
GREEN MOUNTAIN	0.0	9.3	0.0%
HAGAN'S MEADOW	0.0	11.4	0.0%
HEAVENLY VALLEY	4.4	25.8	17.1%
INDEPENDENCE CAMP	4.6	16.0	28.7%
INDEPENDENCE CREEK	0.0	7.4	0.0%
INDEPENDENCE LAKE	19.1	45.7	41.8%
JACK CREEK UPPER	0.0	14.6	0.0%
LAMANCE CREEK	0.0	6.0	0.0%
LAMOILLE #3	0.0	7.8	0.0%
LAUREL DRAW	0.0	1.5	0.0%
LEAVITT MEADOWS	0.0	4.0	0.0%
LOBDELL LAKE	0.0	15.6	0.0%
MARLETTE LAKE	0.0	20.9	0.0%
MT. ROSE	0.0	30.0	0.0%
POISON FLAT	0.0	13.7	0.0%
POLE CREEK R.S.	7.9	20.8	38.0%
RUBICON #2	1.0	31.2	3.2%
SEVENTYSIX CREEK	0.0	5.2	0.0%
SONORA PASS	5.4	26.0	20.8%
SQUAW VALLEY G.C.	9.2	54.1	17.0%
TAHOE CITY CROSS	0.0	6.7	0.0%
TRUCKEE #2	0.0	11.3	0.0%
VIRGINIA LAKES	0.0	22.7	0.0%
WARD CREEK #3	0.0	31.1	0.0%

SNOW CORE MEASUREMENTS - DRI-ASC

ELEVATION FEET	LOCATION	SNOW IN.	WATER IN.	DENSITY
5800	Clear Creek	0	0	---
7260	Spooner Summit	0	0	---
5250	Cliff Ranch, Franktown	0	0	---
6540	Little Valley	0	0	---
5160	Davis Creek	0	0	---
4590	Jct. 395 & NV 27	0	0	---
5110	Lancer	0	0	---
5670	Whites Creek	0	0	---
5700	Evergreen Hills Rd.	0	0	---
6000	Jones Creek	0	0	---
6400	RNR Forestry Site	0	0	---
7060	Reindeer Lodge	0	0	---
7440	Galena Creek	0	0	---
7620	Sky Tavern	0	0	---
8280	Mt. Rose Resort	10.0	4.4	.44
8820	Tamarack Lake	10.0	(4.5)	(.45)
8540	Tahoe Meadows	21.0	9.7	.46
8000	Below Incline Lake	0	0	---
7300	Apollo Way	0	0	---
6235	Third & Incline Creeks	0	0	---
7200	Brockway Summit	0	0	---
6320	North Star Fire Dept.	0	0	---
5900	Truckee - Tahoe Airport	0	0	---
6540	Cabin Creek	0	0	---
6240	Squaw Valley Fire Dept.	0	0	---
6200	Thunder Cliff	0	0	---
6240	Tahoe City	0	0	---
6200	Bennett Flat	0	0	---
6960	Alder Creek	6.0	3.7	.62
5850	Hobart Mills	0	0	---
6340	Sagehen Creek	0	0	---
6410	Henness Past Jct.	0	0	---
6200	Fuller Lake	0	0	---
6000	Joy Lake	0	0	---
9800	Relay Station Tram	0	0	---

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

STATE

California Cooperative Snow Surveys
California Department of Parks and Recreation
California Department of Water Resources
Colorado River Commission of Nevada
Idaho Cooperative Snow Surveys
Nevada Association of Conservation Districts
Nevada Department of Conservation & Natural Resources
- Division of Water Resources
- Nevada State Forester
- Division of Conservation Districts

Oregon Cooperative Snow Surveys
University of Nevada, Desert Research Institute
Utah Cooperative Snow Surveys

FEDERAL

Bureau of Reclamation
Forest Service
Geological Survey
Soil Conservation Service
U.S. District Court - Federal Water Master
NOAA, National Weather Service

PRIVATE

Nevada Irrigation District
Owyhee Project North Board of Control
Owyhee Project South Board of Control
Pacific Gas and Electric Company
Pershing County Water Conservation District
Sierra Pacific Power Company
Truckee - Carson Irrigation District
Walker River Irrigation District
Washoe County Water Conservancy District

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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